

Project Baseline Summary Report

Data Source: **EM CDB**

Operations/Field Office: **Chicago**

Site Summary Level: **Argonne National Laboratory - West**

Project **CH-ANLWWO / ANL-W Waste Operations**

Report Number: **GEN-01b**

Print Date: **3/9/2000**

HQ ID: **0034**

General Project Information

Project Description Narratives

Purpose, Scope, and Technical Approach:

Definition of Scope: The ANL-W waste management program encompasses all ANL-W facilities, operations, and sites used for the storage, treatment, or disposal of radioactive (LLW and TRU), hazardous, and mixed waste materials that have been properly characterized, packaged, and labeled. Facilities used exclusively for long-term storage of ANL-W waste material are also covered in this program.

Waste management activities are those concerned with minimization, treatment, storage, and disposal of radioactive (LLW and TRU), hazardous, and mixed wastes generated as a result of ongoing operations at active facilities and from other sources such as the Environmental Restoration Program. Many of these activities support continuity-of-operations at ANL-W.

Responsibility for managing waste activities at ANL-W has been transferred from EM to SC.

The ANL-W RCRA Permit for the Radioactive Scrap and Waste Facility (RSWF) requires the upgrade of this facility to replace and install new cathodically protected liners to ensure TRU and LLW and scrap contained in these liners do not cause a release to the environment.

Technical Approach: Continue normal ANL-W EM Program operations.

Responsibility for managing waste activities at ANL-W has been transferred from EM to SC.

Facilities at ANL-W regulated under the Resource Conservation and Recovery Act (RCRA) are currently permitted or are currently operating under an interim status RCRA permit. Currently, ANL-W is not required to have an established RCRA groundwater monitoring plan since it does not operate any land-based TSD facilities. If RCRA groundwater monitoring is deemed necessary at a later date, the required elements will be incorporated into this Plan as a future revision.

Routinely generated hazardous waste is collected from the generator and usually stored in a 90 day temporary storage area at ANL-W or at INEL. It is subsequently disposed of at an off-site permitted disposal facility.

Low level waste management operations are composed of the collection, treatment and storage of low level waste at ANL-W. Waste is shipped either to the Radioactive Waste Management Complex (RWMC) or to the Waste Experimental Reduction Facility, both at INEL with minimal costs to EM-30 at ANL-W. All low level radioactive liquid waste at ANL-W is processed through their Radioactive Liquid Waste Treatment Facility.

Mixed low level waste is kept within RCRA regulated areas at ANL-W and the INEL storage facility. The treatment and storage is delineated in the Site Treatment Plan as required under FFCA.

Some low level historical waste, mixed waste and recoverable nuclear materials are presently stored at the Radioactive Scrap and Waste Facility (RSWF) in accordance with the RSWF RCRA permit. The permit requires the continuous upgrade of the liners in which the waste is stored to prevent

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Project Description Narratives

a potential release to the environment.

Routine shipments of TRU waste occur from ANL-W to the RWMC at INEL for storage and eventual disposal at WIPP. TRU waste contaminated with elemental sodium is moved to the RSWF.

Project Status in FY 2006:

Responsibility for managing waste activities at ANL-W has been transferred from EM to SC.

Post-2006 Project Scope:

Responsibility for managing waste activities at ANL-W has been transferred from EM to SC.

Project End State

Responsibility for managing waste activities at ANL-W has been transferred from EM to SC.

Cost Baseline Comments:

Actual costs.

Safety & Health Hazards:

N/A.

Safety & Health Work Performance:

N/A.

PBS Comments:

Support at ANL-W is contained in two categories (1) General Support and (2) mission Support. ~ ~ General Support: This scope element is for capturing the general support costs at ANL-W which are supported by the EM-30 program. Generally, the general supp

Baseline Validation Narrative:

The reasonableness of the scope and cost of Waste Operations activities for CH laboratories was validated in September 1996. This validation activity was performed by a team comprised of Chicago Operations Office staff, Headquarters Program Office (EM-34) staff and an independent consultant from Project Assistance Corporation who provides support to the Richland Operations Office. The team validated the use of historical data to forecast future waste quantity generation for ongoing research activities and validated the use of Activity Based Cost Estimates to determine the resources required. This scope definition was determined to be the key element in determining costs. Since the validation, the project was completed and estimated costs have been updated to actuals.

General PBS Information

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General PBS Information

Project Validated? Yes Date Validated: 9/1/1996

Has Headquarters reviewed and approved project? No

Date Project was Added: 12/1/1997

Baseline Submission Date: 7/7/1999

FEDPLAN Project? Yes

Drivers:	CERCLA	RCRA	DNFSB	AEA	UMTRCA	State	DOE Orders	Other
	N	N	N	N	N	N	N	N

Project Identification Information

DOE Project Manager: Dale Dietzel

DOE Project Manager Phone Number: 630-252-2555

DOE Project Manager Fax Number: 630-252-2750

DOE Project Manager e-mail address: dale.dietzel@ch.doe.gov

Is this a High Visibility Project (Y/N):

Planning Section

Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006
PBS Baseline (current year dollars)	6,761	0	6,761	5,110	5,110	1,651	1,651		0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	6,761	0	6,761	5,110	5,110	1,651	1,651		0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	6,761	0	6,761	5,110	5,110	1,651	1,651		0	0	0	0	0	0	0

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Baseline Costs (in thousands of dollars)

	1997-2006 Total	2007-2070 Total	1997-2070 Total	1997	Actual 1997	1998	Actual 1998	1999	2000	2001	2002	2003	2004	2005	2006	
PBS EM Baseline (constant 1999 dollars)	6,761	0	6,761	5,110	5,110	1,651	1,651		0	0	0	0	0	0	0	
	2007	2008	2009	2010	2011- 2015	2016- 2020	2021- 2025	2026- 2030	2031- 2035	2036- 2040	2041- 2045	2046- 2050	2051- 2055	2056- 2060	2061- 2065	2066- 2070
PBS Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (current year dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PBS EM Baseline (constant 1999 dollars)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Non-EM Costs included in the Cost Baseline

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Non-EM Category: Other													
Nuclear Energy			1	1	1	1	1	1	1	1	1	1	1
	2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
Non-EM Category: Other													
Nuclear Energy	1	1	1	1	1	1	1	1	1	1	1	1	1

Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
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Baseline Escalation Rates

1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
0.00%	0.00%		2.70%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%
2010	2011-2015	2016-2020	2021-2025	2026-2030	2031-2035	2036-2040	2041-2045	2046-2050	2051-2055	2056-2060	2061-2065	2066-2070
2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%	2.10%

Project Reconciliation

Project Completion Date Changes:

Previously Projected End Date of Project: 9/1/1997

Current Projected End Date of Project: 9/30/1997

Explanation of Project Completion Date Difference (if applicable):

Project Cost Estimates (in thousands of dollars)

Previously Estimated Lifecycle Cost (1997 - 2070, 1998 Dollars):	6,838	Actual 1997 Cost:	5,110	Actual 1998 Cost:	1,651
Previously Estimated Lifecycle Cost of Project (1999 - 2070, 1998 Dollars):	77	Inflation Adjustment (2.7% to convert 1998 to 1999 dollars):			2
Previously Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	79				

Project Cost Changes

Cost Adjustments Reconciliation Narratives

Cost Change Due to Scope Deletions (-):

Cost Reductions Due to Efficiencies (-): 79

Cost Associated with New Scope (+):

Cost Growth Associated with Scope Previously Reported (+):

Cost Reductions Due to Science & Technology Efficiencies (-):

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Project Reconciliation

Subtotal:	0
Additional Amount to Reconcile (+):	0 Waste quantities were slightly different than anticipated.
Current Estimated Lifecycle Cost (1999 - 2070, 1999 Dollars):	0

Milestones

Milestone/Activity	Field Milestone Code	Original Date	Baseline Date	Legal Date	Forecast Date	Actual Date	EA	DNFSB	Mgmt. Commit.	Key Decision	Intersite
Project Complete	CH-ANLW-01		9/30/1997								
CH-ANLW-WO-002	Project Start		10/1/1996								

Milestones - Part II

Milestone/Activity	Field Milestone Code	Critical Decision	Critical Closure Path	Project Start	Project End	Mission Complete	Tech Risk	Work Scope Risk	Intersite Risk	Cancelled	Milestone Description
Project Complete	CH-ANLW-01				Y						
CH-ANLW-WO-002	Project Start			Y							